

WHAT IS CLAIMED IS:

1. A map data production system comprising:

a data storing means for storing road map data;

a map data display means for displaying a map retrieved from the road map data stored in the data storing means on a display;

a map section specifying means for specifying a section of a road on the map displayed on the display;

an elevation data entry means for obtaining elevation data of the section specified with the map section specifying means via an external input device; and

a grade data adding means for adding a grade data of the section of the road by calculating a grade of the section from the elevation data and a distance of the section derived from the map data and storing the grade as the grade data in the data storing means.

2. The map data production system according to claim 1, wherein the elevation data entry means includes entry options for selectively enabling a predetermined value entry and an arbitrary value entry via the external input device.

3. The map data production system according to claim 1, further comprising a grade data entry means for obtaining grade data of the specifies section of the road via the external input device, wherein the grade data adding means stores the grade data into the data storing means after the

grade data entry means has obtained the grade data.

4. The map data production system according to claim 3, further comprising a grade data display means for displaying the grade data of the specified section of the road on the display when the grade data is stored in the data storing means.